1 1 ("6456892").PN.	USPAT	
	001111	2003/09/12 16:07
2 1 (("6456892").PN.) and remote	USPAT	2003/09/12 16:13
3 74 wml and remote	USPAT	2003/09/12 16:13
4 39471 gui ((graphical user) adj1 interface)	USPAT	2003/09/12 16:13
5 50 (wml and remote) and (gui ((graphical user)	USPAT	2003/09/12 16:13
adj1 interface))	•	
6 13938 (gui ((graphical user) adj1 interface)) wit		2003/09/12 16:14
(generat\$3 creat\$3 transmi\$5 receiv\$3 send\$	3	
configur\$3)		
7 19 ((wml and remote) and (gui ((graphical user	c) USPAT	2003/09/12 16:20
adjl interface))) and ((gui ((graphical		
user) adjl interface)) with (generat\$3		
creat\$3 transmi\$5 receiv\$3 send\$3		
configur\$3))		
8 19 (wml and remote) and ((gui ((graphical user	c) USPAT	2003/09/12 16:32
adj1 interface)) with (generat\$3 creat\$3		
transmi\$5 receiv\$3 send\$3 configur\$3))		
9 2010 ((gui ((graphical user) adj1 interface))	USPAT	2003/09/12 16:33
with (generat\$3 creat\$3 transmi\$5 receiv\$3		
send\$3 configur\$3)) and (http browser) and remote		
10 6547 ((gui ((graphical user) adj1 interface))	TIODAM	2003/09/12 16:34
with (generat\$3 creat\$3 transmi\$5 receiv\$3	USPAT	2003/09/12 16:34
send\$3 configur\$3)) with (information data		
decription specification attribute property	,	
describ\$3)		
11 1034 (((gui ((graphical user) adjl interface))	USPAT	2003/09/12 16:34
with (generat\$3 creat\$3 transmi\$5 receiv\$3	001111	2003/03/12 10:34
send\$3 configur\$3)) and (http browser) and		
remote) and (((gui ((graphical user) adjl		
interface)) with (generat\$3 creat\$3		
transmi\$5 receiv\$3 send\$3 configur\$3)) with	ı	
(information data decription specification		
attribute property describ\$3))		
12 429 (((gui ((graphical user) adj1 interface))	USPAT	2003/09/12 16:36
with (generat\$3 creat\$3 transmi\$5 receiv\$3		
send\$3 configur\$3)) with (information data		
decription specification attribute property		
describ\$3)) with (host server client target	:)	
with (computer device workstation)		
13 ((((gui ((graphical user) adjl interface))	USPAT	2003/09/12 16:36
with (generat\$3 creat\$3 transmi\$5 receiv\$3		·
send\$3 configur\$3)) and (http browser) and		
remote) and (((gui ((graphical user) adjl		
interface)) with (generat\$3 creat\$3		
transmi\$5 receiv\$3 send\$3 configur\$3)) with (information data decription specification		
attribute property describ\$3))) and ((((gui		
((graphical user) adjl interface)) with		
(generat\$3 creat\$3 transmi\$5 receiv\$3 send\$:3	
configur\$3)) with (information data	, s	
decription specification attribute property	,	
describ\$3)) with (host server client target	:)	
with (computer device workstation))		

14	135	(((((gui ((graphical user) adj1 interface))	USPAT	2003/09/12 16:36
		with (generat\$3 creat\$3 transmi\$5 receiv\$3		
•		send\$3 configur\$3)) and (http browser) and		
		remote) and (((gui ((graphical user) adj1		
		interface)) with (generat\$3 creat\$3		
		transmi\$5 receiv\$3 send\$3 configur\$3)) with	·	
		(information data decription specification		
		attribute property describ\$3))) and (((gui		
		((graphical user) adjl interface)) with		
		(generat\$3 creat\$3 transmi\$5 receiv\$3 send\$3		
		configur\$3)) with (information data		
		decription specification attribute property	1	
		describ\$3)) with (host server client target)	i	
		with (computer device workstation))) not	i	
		((wml and remote) and ((gui ((graphical		
		user) adj1 interface)) with (generat\$3		
		creat\$3 transmi\$5 receiv\$3 send\$3		
		configur\$3)))		

L Number	Hits	Search Text	DB	Time stamp
1	89018	gui ((graphical user) adjl interface)	USPAT;	2003/09/11 17:18
			US-PGPUB; EPO; JPO;	
2	706	(gui ((graphical user) adjl interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)	DERWENT; IBM_TDB USPAT; US-PGPUB;	2003/09/11 17:21
			EPO; JPO; DERWENT; IBM_TDB	
3	349	((gui ((graphical user) adjl interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and (wireless wml html http)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/09/11 17:24
4	138	((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and ((remote client portable) adj1 (computer workstation))	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2003/09/11 17:26
5	7	((gui ((graphical user) adjl interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) with ((remote client portable) adjl (computer workstation))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/09/11 17:29
6	121	((gui ((graphical user) adjl interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) with (computer workstation)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/09/11 17:30
7	92	<pre>(((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) with (computer workstation)) and ((((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and (wireless wml html http)) (((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and ((remote client portable) adj1 (computer workstation))))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/11 17:30
8	31	<pre>(((gui ((graphical user) adjl interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) with (computer workstation)) and (((gui ((graphical user) adjl interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and (wireless wml html http)) and (((gui ((graphical user) adjl interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and ((remote client portable) adjl (computer workstation)))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/11 17:40
	61	<pre>((((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) with (computer workstation)) and ((((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and (wireless wml html http)) (((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and ((remote client portable) adj1 (computer workstation))))) not (((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) with (computer workstation)) and (((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and (wireless wml html http)) and (((gui ((graphical user) adj1 interface)) with (transmi\$5 send\$3) with (descri\$5 ident\$7))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/11 17:51
10	63	and ((remote client portable) adjl (computer workstation)))) (345/740,748).CCLS.	USPAT	2003/09/11 17:52

Page 1

11	1	((gui ((graphical user) adj1 interface))	USPAT	2003/09/11 18:01
		with (transmi\$5 send\$3) with (descri\$5 ident\$7)) and ((345/740,748).CCLS.)		
12	723	(gui ((graphical user) adj1 interface)) with	USPAT	2003/09/11 18:02
:	Ì	(limited small hand-held palm) with (computer device)		•
13	27	((qui ((qraphical user) adj1 interface))	USPAT	2003/09/11 18:02
		with (transmi\$5 send\$3) with (descri\$5		
		ident\$7)) and ((gui ((graphical user) adj1		
-		interface)) with (limited small hand-held palm) with (computer device))		

(19) United States

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(54) INFORMATION PROCESSING APPARATUS AND INFORMATION DISPLAY METHOD

Publication Classification

ABSTRACT

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(21) Appl. No.:

10/300,622

(22) Filed:

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Related U.S. Application Data

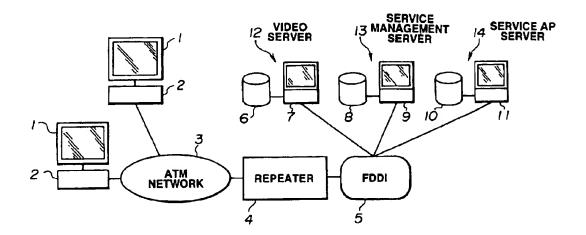
Continuation of application No. 08/776,957, filed on Feb. 7, 1997, filed as 371 of international application No. PCT/JP96/01664, filed on Jun. 17, 1996.

(30)Foreign Application Priority Data

(JP) 7-150771

In an information processing apparatus and an information display method of this invention, user operates client computer to connect it to server computer by using communication line to carry out, when user accepts offer of service, e.g., offer of information, video viewing or order of goods, etc., an operation to display entrance hall within virtually actualized space on the display of the client computer, and to further display thereon plural shops by a specific pattern in relation to the entrance hall. As an example of the specific pattern, there is used a pattern such that entrance hall is disposed at one side of polygon, respective shops are disposed at other respective sides, and the entrance hall is caused to have a height capable of viewing other respective shops by bird's eye. Thus, in the three-dimensional GUI, the retrievability and the functional availability are increased. In addition, it becomes possible to also adopt, in a natural form, the concept with which many users who have used the

two-dimensional GUI are familiar.



L Number	Hits	Search Text	DB	Time stamp
2	1	(("6456892").PN.) and (interface gui)	USPAT	2003/09/12 13:16
3	1	(("6456892").PN.) and (common universal standard international iEEE)	USPAT	2003/09/12 13:47
4	1	(("6456892").PN.) and (xml wml mark\$3)	USPAT	2003/09/12 13:48
5	0	(("6456892").PN.) and (html language)	USPAT	2003/09/12 13:50
6	0	(("6456892").PN.) and (www brows\$3)	USPAT	2003/09/12 13:51
7	1539	wml	USPAT;	2003/09/12 13:51
			US-PGPUB;	
			EPO; JPO;	*
			DERWENT;	
			IBM_TDB	
8	38369	browser	USPAT;	2003/09/12 13:51
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
9	1111	wml and browser	USPAT;	2003/09/12 13:52
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
10	89018	((graphical user) adj1 interface) gui	USPAT;	2003/09/12 13:52
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
		l	IBM_TDB	
11	89520	(host serv\$5) adj1 computer	USPAT;	2003/09/12 13:54
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
12	16448	(target client) adj1 computer	USPAT;	2003/09/12 13:53
			US-PGPUB;	
	1		EPO; JPO;	
1	1		DERWENT;	
10	100	h	IBM_TDB	0000/00/10 10 54
13	103		USPAT;	2003/09/12 13:54
		(((graphical user) adjl interface) gui) and	US-PGPUB;	
		((host serv\$5) adj1 computer) and ((target client) adj1 computer) and wml	EPO; JPO;	
		client) adji computer) and wmi	DERWENT;	
14	00500	(heat gamets memote) adil gameuter	IBM_TDB USPAT;	2003/09/12 13:54
14	96562	(host serv\$5 remote) adj1 computer	US-PGPUB;	2003/09/12 13:54
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
15	109	browser and (wml and browser) and	USPAT;	2003/09/12 14:01
13	103	(((graphical user) adj1 interface) gui) and	US-PGPUB;	2003/03/12 14:01
	Į.	(((host serv\$5 remote) adj1 computer) ((host	EPO; JPO;	
		serv\$5) adj1 computer)) and ((target client)	DERWENT;	
	İ	adjl computer) and wml	IBM TDB	
16	109		USPAT;	2003/09/12 14:02
		(((graphical user) adjl interface) gui) and	US-PGPUB;	
	1	(((host serv\$5 remote) adj1 computer) ((host	EPO; JPO;	
	1	serv\$5) adjl computer)) and ((target client)	DERWENT;	
	1	adj1 computer)	IBM TDB	
17	0	· · · · · · · · · · · · · · · · · · ·	USPAT;	2003/09/12 14:01
	1	(((graphical user) adj1 interface) gui) and	US-PGPUB;	
		(((host serv\$5 remote) adj1 computer) ((host	EPO; JPO;	
		serv\$5) adj1 computer)) and ((target client)	DERWENT;	
		adj1 computer)) not (browser and (wml and	IBM_TDB	
		browser) and (((graphical user) adj1	_	
		interface) gui) and (((host serv\$5 remote)		
		adj1 computer) ((host serv\$5) adj1		
		computer)) and ((target client) adj1		
		computer) and wml)	1	
18	2468	, -	USPAT;	2003/09/12 14:03
		interface) gui) and (((host serv\$5 remote)	US-PGPUB;	
1		adj1 computer) ((host serv\$5) adj1	EPO; JPO;	
1		computer)) and ((target client) adj1	DERWENT;	
		computer)	IBM_TDB	
				<u>.</u>

10	8	(()host comp(E) adil computer) ((target	USPAT;	2003/09/12 14:05
19	8	<pre>(((host serv\$5) adj1 computer) ((target client) adj1 computer)) with (((graphical user) adj1 interface) gui) with (decri\$5 specification)</pre>	US-PGPUB; EPO; JPO; DERWENT;	2003/09/12 14:05
20	855	(((host serv\$5) adjl computer) ((target client) adjl computer)) with (((graphical user) adjl interface) gui) with (information data property attribute decri\$5	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2003/09/12 14:04
21	233	specification) (browser and (((graphical user) adj1 interface) gui) and (((host serv\$5 remote) adj1 computer) ((host serv\$5) adj1 computer)) and ((target client) adj1 computer)) and ((((host serv\$5) adj1	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/09/12 14:04
22	17044	<pre>computer) ((target client) adj1 computer)) with (((graphical user) adj1 interface) gui) with (information data property attribute decri\$5 specification)) (((host serv\$5) adj1 computer) ((target client) adj1 computer)) with (service</pre>	USPAT;	2003/09/12 14:05
		function)	EPO; JPO; DERWENT; IBM_TDB	
23	147	((browser and (((graphical user) adj1 interface) gui) and (((host serv\$5 remote) adj1 computer) ((host serv\$5) adj1 computer)) and ((target client) adj1	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2003/09/12 14:06
		<pre>computer)) and ((((host serv\$5) adj1 computer) ((target client) adj1 computer)) with (((graphical user) adj1 interface) gui) with (information data property attribute decri\$5 specification))) and ((((host serv\$5) adj1 computer) ((target client) adj1 computer)) with (service function))</pre>	IBM_TDB	·
24	144	<pre>(((browser and (((graphical user) adj1 interface) gui) and (((host serv\$5 remote) adj1 computer) ((host serv\$5) adj1 computer)) and ((target client) adj1 computer)) and ((((host serv\$5) adj1 computer)) and ((((host serv\$5) adj1 computer) ((target client) adj1 computer)) with (((graphical user) adj1 interface) gui) with (information data property attribute decri\$5 specification))) and ((((host serv\$5) adj1 computer) ((target client) adj1</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/12 14:24
		computer)) with (service function))) not (browser and (wml and browser) and (((graphical user) adjl interface) gui) and (((host serv\$5 remote) adjl computer) ((host serv\$5) adjl computer)) and ((target client) adjl computer) and wml)		
25	0		USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/09/12 14:24
1 27	1 0	("6456892").PN. ((("6032202") or ("6349532") or ("6052750") or ("6038625")).PN.) and (wml browser	USPAT USPAT	2003/09/12 15:25 2003/09/12 14:49
26	4	wireless hypertext http html) (("6032202") or ("6349532") or ("6052750") or ("6038625")).PN.	USPAT	2003/09/12 14:48
28	4	(("6038625")).PN. (("6032202") or ("6349352") or ("6052750") or ("6038625")).PN.	USPAT	2003/09/12 14:49
29	0	((("6032202") or ("6349352") or ("6052750") or ("6038625")).PN.) and (wml browser	USPAT	2003/09/12 14:49
30	1	wireless hypertext http html) ("6523696").PN.	USPAT	2003/09/12 15:26